KDF9 Computer

The scale of the machine envisaged is a KDF9 computer with

> 16384 words fast storage
> 4 magnetic tape units
> paper tape input (1000 c.p.s.)
> paper tape output (100 c.p.s.)
> monitor printer (Flexowriter)
> and line printer (600 l.p.m.)

Additional Input/Output and Ancillary Equipment

On-line:

Card reader (I.C.T. 600 c.p.m.)	£10,000
Card punch (150 c.p.m.)	£27,360
Paper tape input (1000 c.p.s.)	£3,000
Paper tape output (100 c.p.s.)	£2,000
Paper tape output (300 c.p.s.)	£4,000

The possibility of fitting the New Electronic Products variable speed magnetic tape input/output is being studied

Off-line:

(i) English Electric

Card Reader (400 c.p.m.)	£11,810
Card punch (150 c.p.m.)	£22,360

(ii) I.C.T.

Card to paper tape (1037/0)	£3,000
Paper tape to cards (1036/2)	£1,600
Card to typewriter (Remington)	£1,550

(iii) Creeds

Paper tape punch set (91 keyboard & 25 reperforator)	£450
90 Verifier set (91 keyboard, 92 verifier, 25 reperforator)	£625
Creedomat (tape read/punch, IBM typewriter)	c. £1,306
Keyboard perforator (7 hole version of 7P/N)	
Reproducer set (91 keyboard, 25 reperforator, 92 verifier, 75 teleprinter)	

(iv) Flexowriter

Reproducer (i.e. printer only)	£1280-£1330
Recorder-reproducer (i.e. printer-punch)	£1750-£1800
Auxiliary tape reader (controls layout)	£500
Syncro duplex reader (controls & suppress)	£640
Tape converter (pluggable)	£1,800

(v) **B.I.M.A.**

BIMA Model	S	(printer-punch)	£1,430
"	SP	(as above + tape skip/restore)	£1,760
"	P	(as above + non print)	£1,980
Additional reader			£450

Individual Units

Elliott Tape Reader   *(1000 c/s)*   *£650*

Ferranti TR5 paper tape reader (300 c.p.s.)   £420

Creed 25 reperforator (30 c.p.s.)   *£201 (5)*   £260 *£1* *(6,7)*

Teletype 110   (100 c.p.s.)   *£510 (5)*   *£535 (6,7,8)*

New Electronic Products magnetic tape unit (10, 30, 200,1000cps)£4,700

Creed 3000   *(300 c/s)*   *£2500 (5)*   *£2600 (6,7)*
                    Check back facility £150   *£2700 (8)*

Adding Punch Equipment

Friden AAEO   (adding machine only)   £450

Friden APT   (adding machine + punch)   £1,400

(list

Basic computer   '25,000
Xtra 12,288   '4,500
Tape (4)   30,950
line print   3,400
Spare   2,000

242,550

Elliott Card Reader
£1260, £1417, £1523
with column identification
-   -   and local controls.

Spares 2000
Backup Service 1925 for annum

KDF 9   Computer Prices

Central KDF 9 Computer including
    4096 words core storage
        1 paper tape reader (1000 c.p.s)
        1 paper tape punch   (100 c.p.s.)
and   1 monitor printer (Flexowriter)   £125,000

Time sharing unit·   £10,600   £25,000
4096 words   £12,000 b £18,000 a   £16,500
Additional 4096 words core storage

                                                 £10,000 a   £9,990

Magnetic Tape Units   1081

Paper tape reader   (1000 c.p.s)   £ 3,000

Paper tape punch   (100 c.p.s)   £ 2,000

    ,,   ,,   ,,   (400 c.p.s)   £ 4,000

Punch card input (600 c.p.m)   £ 10,000

    ,,   ,,   output (150 c.p.m)   1326   26,000
                                           maint   £ 27,360   ⚹

Line printer   (600 l.p.m)   £ 31,400

= unit (Sperry Type 2c), 3000 c.p.m   384 tracks
              36,864 words = 576 × 64   £20,000

                                                             £3,000
            (average access time 10 + 20 millisec)

        Buffer , each   (£16,450 ——— £9990)   £12,900 a   £6,460
                  coin   1081   £10,000 b

        Tape Station   1085   £15,000 a

        Tape buffer   1085   £20,000 a

        IBM tape deck + buffer   £30,000 b.
                                                       & 15 Dec 1964

        a   1964 March 19

Tape Equipment — Creedo
Tape Readers.

perforator 92   7 chan   £91

Perforator   (keyboard to paper tape)
                            5 channel, 14 c.p.s)

7P/N Keyboard Perforator (~~~~~)   £125

Page Teleprinter	(5 channel)		Receiver only	Reperforator attachment
		Teleprinter		
54 (6⅔ c.p.s)		£300	£250	£60
75 (10 c.p.s.)		£300	£250	£60

Tape Punches   (signal to punched paper tape)

25 Reperforator	(33 c.p.s)	5 channel	£201
		6 or 7 "	£251
3000 Reperforator	(300 c.p.s)	5 "	£2500
		6 or 7 "	£2600
		8 "	£2700
Check back facility			£150

Sets of Tape Editing Equipment (all 5 ch

Interpolator Unit   (6⅔ c.p.s), 5 channel)   £413
   (54/R receiving only teleprinter, 65/6 tape transmitter and desk)

Reproducer Set   (6⅔ c.p.s, 5 channel)   £530
   (54 teleprinter with reperforator, 65/6 tape transmitter and desk.

Reproducer Set   (10 c.p.s, 5 channel)   c. £530
   (75 teleprinter with reperforator, 65/6 tape transmitter and desk

roducer Set   (10 c.p.s, 6 channel $\frac{7}{8}$" tape)   £663
(75 teleprinter with reperforator, 92 reader)

Verifier Set   (16 c.p.s, 5 channel)   £525

                      (16 c.p.s, 7 channel)   £625

(91 keyboard, 92 tape reader and 25 reperforator)

Keyboard · Reperforator Set   (7 channel)   £450

(91 keyboard and 25 reperforator)

Under development

Creedomatic
   (tape punching/reading to IBM typewriter)

Keyboard Perforator   &   £350
   (similar to TP/N)

7· Channel Reproducer Set   about £1,100
   (91 keyboard, 25 reperforator, 92 reader, and modified
75 teleprinter)

Creedomat
   reader to typewriter of reader and   £750
   typewriter, ~~era~~, and punch   £900
   typewriter, reader, and punch~~...~~   £1250

Tape Equipment

Record List

Reproducer (i.e. printer only)	£1280 – £1330
Recorder-reproducer (i.e. printer-punch)	£1750 – £1800
Auxiliary tape reader (controls layout)	£500
Spero duplex reader (controls + suppressor)	£640
Tape converter (pluggable)	£1800

B.T.M.A

Model S (printer-punch)	£1480
. SP (as above + tape skip/restore)	£1760
. P (as above + non-print)	£1980
Additional reader	£450

Ferranti
FR5 tape reader (300 c.p.s)

~~Paper Tape~~

Paper Tape Equipment

Ferranti	TR5	tape reader	(300 c/s)	£420
Teletype	110	tape punch	(110 c/s, 5 or 6-7-8 channel)	
				£450

Elliott Automation (Elliott)
High Speed tape reader (1000 c/s) £650
Slow. Speed " " (200 c/s) £250.

1. Card Equipment

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Card to paper tape   (1037/0)   uses 129 verifier   £3,000
Paper tape to cards   (1036/2)   uses 030 punch   £1,600
Card to Remington typewriter   £1,550

Associated - Automation (Elliott)

High speed card reader   (400 c.p.m.)   £1260
B 31   without column identification
B 41/43   with   "   "   (face down / up)   £1417
B 413   "   "   "   (face down or up) £1452
B 42/44   "   "   "   and local controls
                                    (face down / up)   £1523.

Ancilliary Equipment (KDF 9). Prices

Teletype punch (as spec. of Eng. Elect).
5 channel £450
6-7-8 channel £450

~~Creed~~

Creed 7P/N Keyboard Perforator (Series 2) £200

Elliott 250 c.p.s reader £250.

Teacounter model (spare. on. line) £2181

Underwood Data Typer Punch (D.T.P) £1150
Data Slave Reader (DS.R) £1050

Data. Master Punch Reader (DM.P.R) £1850

Variable Space typewriter for above. additional £105
Solenoid operated typewriter £320 - £450.
£5,752

Lister £10,000 less 12½% discount

[7' x 3'3"] single phase 200 - 255 V a.c
consumption 1½ kW.

IBM 026/1 Card punch [Rental £21.5s/month] £1365
Discount?

ICT